

FIG. 1

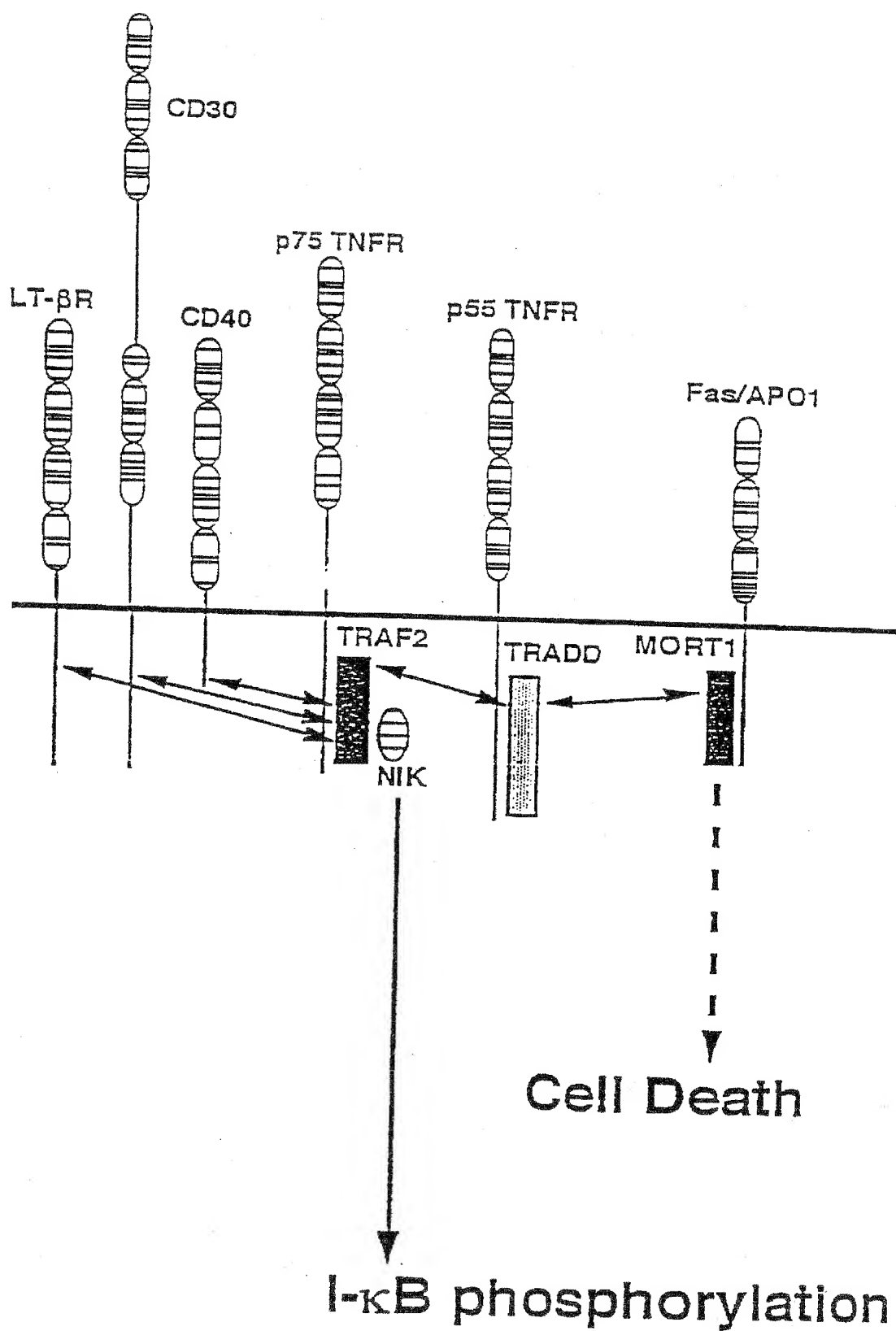


FIG. 2A

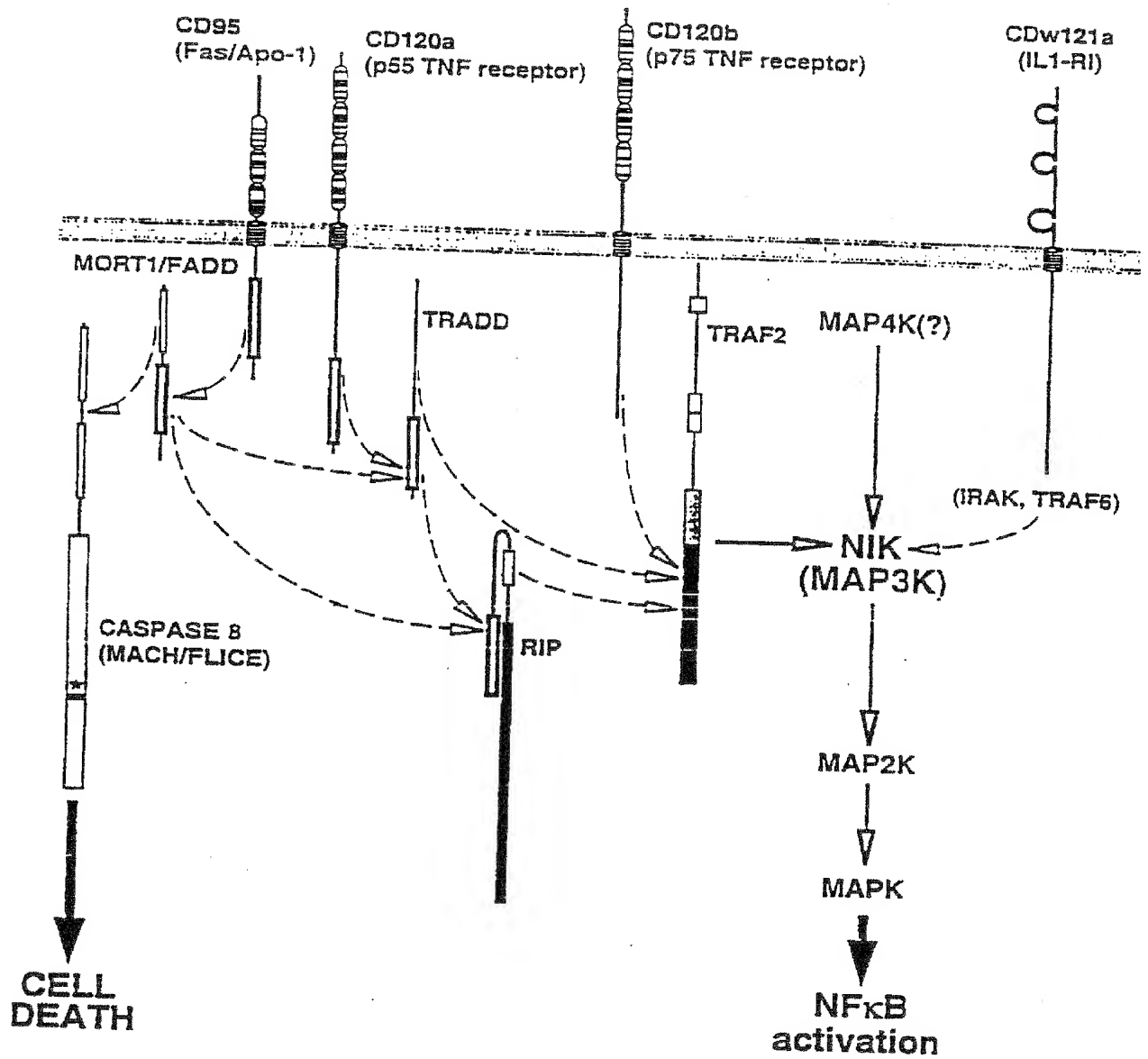


FIG. 2B

REPLACEMENT SHEET  
Appln. No. 09/155,676

Length: 1906 July 7, 1996 12:35 Type: N Check: 7122 ..

1 CATTGGGTCA CGCGGTGGCG GCGCTCTAGA ATAGTGGATC CCCCgggGCTG  
51 CAGGAATTCG ATTCGAGGCC ACGAAGGCCG GCGGCGCGGC GCANGCACCg  
101 GCCCCGGGGA AGGCnCCATG AGCGGATCnC nGAACnATGA CAAAAGACAA  
151 TTTCTGCTGG AGCGACTGCT GGATGCAGTG AAACAGTGCC AGATCCGCTT  
201 TnGAGGGAGA AAGGAGATTG CCTCGGATTC CGACAGCAGG GTCACCTGTC  
251 TGTGTGCCCCA GTTTGAAGCC GTCCTGCAGC ATGGCTTGAA GAGGAGTCGA  
301 GGATTGGCAC TCACAGCGGC AGCGATCAAG CAGGCAGCGG GCTTTGCCAG  
351 CAAAACCGAA ACAGAGCCCCG TGTTCCTGGTA CTACGTGAAG GAGGTCTCTCA  
401 ACAAGCACGA GCTGCAGCGC TTCTACTCCC TCGCCACAT CGCCTCAGAC  
451 gTGGGCCCGG GTCGCGCCTG GCTGcGCTGT GCCCTCAACG AACACTCCCT  
501 GGAGCGCTAC CTGCACATGC TCCTGGCCGA CCGCTGCAGG CTGAGCACTT  
551 TTTATGAAGA CTGGTCTTTT GTGATGGaTG AAGAAAGGTC CAGTATGCTT  
601 CCTACCATGG CAGCAGGTCT GAACTCCATA CTCTTTGCCA TTAACATCGA  
651 CAACAAGGAT TTGAACGGGC AGAGTAAGTT TGCTCCCACC GTTTCAGACC  
701 TCTTAAAGGA GTCAACGCAG AACGTGACCT CCTTGCTGAA GGAGTCCACG  
751 CAAGGAGtGA GCAGCCTGTT CAGGGAGATC ACAGcCTcCT cTGCCGTcTC  
801 CATCctCATC AAACCTGAAC AGGAGACCGA CCCTTGCCCTG TCGTGTCCAG  
851 GAATGTCAGT GCTGATGCCA AATGCAAAAA GGAGCGGAAG AAGAAAAAGA

FIG. 3A-1

REPLACEMENT SHEET  
Appln. No. 09/155,676

901 AAGTGACCAA CATAATCTCA TTTGATGATG AGGAAGATGA GCAGAACTCT  
951 GGGGACGTGT TTAAAAAGAC ACCTGGGGCA GGGGAGAGCT CAGAGGACAA  
1001 CTCCGACCGC TCCTCTGTCA ATATCATGTC CGCCTTTGAA AGCCCCCTTCG  
1051 GGCCTAACTC CAATGGAATC AGAGCAGCAA CTCATGGAAA ATTGATTCCC  
1101 TGTCTTTGAA CGGGGAGTTT GGGTACCAGA AGCTTGATGT GAAAAGCATC  
1151 GATGATGAAG ATGTGGATGA AAACGAAGAT GACGTGTATG GAAACTCATC  
1201 AGGAAGGAAG CACAGGGGCC ACTCGGAGTC GCCCGAGAAG CCACTGGAAG  
1251 GGAACACCTg CCTCTCCcAG ATGCACAGCT GGgCtCCGCT GAAGgTgCTG  
1301 CaCAaTGACT CCGACATCCT CTTCCCTGTC AGTGGCGTGG gCTCCTACAG  
1351 CCCAGCAGAT gCCCCCCTCG GAAGCCTGGA GAACGGGACA GGACCAGAGG  
1401 ACCACGTTCT CCCGGATCCT GGACTTCGGT ACAGTGTGGA AGCCAGCTCT

FIG. 3A-2

REPLACEMENT SHEET  
Appln. No. 09/155,676

1451 CCAGGCCACG GAAGTCCTCT GAGCAGCCTG TTACTTCTGC CTCAGTGCCA  
1501 GAGTCCATGA CAATTAGTGA ACTGCGCCAG GCCACTGTGG CCATGATGAA  
1551 CAGGAAGGAT GAGCTGGAGG AGGAGAACAG ATCACTGCCA AACCTGCTCG  
1601 ACGGTGAGAT GGAGCACTCA GCCGCGCTCC GGCAAGAGGT GGACACCTTG  
1651 AAAAGGAAGG TGGCTGAACA GGAGGAGCGG CAGGGCATGA AGGTCCAGGC  
1701 GCTGGCCAGC TATCTTTGCT ATTTTGTGAG GAGATTCTAA CCCCACGTGA  
1751 GAACCATGTG GTGGAGAAAT GGAGGGAGAG AGAAATCCAA CAGTTCCTGA  
1801 TAGTCTCATT TGAGCTCCTG GATCCAGTCT TTCCTGAAGC TGTGTTTCCT  
1851 CTGGACTTTT CATGTATGTG AGCCAATAAA TTGCTTTCAT TCCTTGAAAA  
1901 AAAAAA

FIG. 3A-3

REPLACEMENT SHEET  
Appln. No. 09/155,676

TRANSLATE of: 9hhh check: 7122 from: 1 to: 1906  
generated symbols 1 to: 635.

9hhh.pep Length: 604 August 23, 1996 15:03 Type: P Check: 4554

```
1  XTGPGXGXMS GSXNXDKRQF LLERLLDAVK QCQIRFXGRK EIASDSDSRV
51  TCLCAQFEAV LQGLKRSRG LALTAAAIKQ AAGFASKTET EPVFWYYVKE
101 VLNKHELQRF YSLRHIAADV GRGRAWLRCA LNEHSLERYL HMLLADRCL
151 STFYEDWSFV MDEERSSMLP TMAAGLNSIL FAINIDNKDL NGQSKFAPTV
201 SDLLKESTQN VTSLLKESTQ GVSSLFREIT ASSAVSILIK PEQETDFCLS
251 CPGMSVLMFN AKRSGRKRK *PT*SHLMMR KMSRTLGTCL KRHLGQGRAQ
301 RTTPTAPLSI SCPFLKAPSG LTPMESEQQL MEN*FFVFER GVWVPEA*CE
351 KHR**RCG*K RR*RVWKLIR KEAQGPLGVA REATGREHLP LPDAQLGSAE
401 GAAQ*LREPL PCQWRGLLQP SRCPPRKPGZ RDRTRGPRSP GSWTSVQCGS
451 QLSRPRKSSE QFVTSASVPE SMTISELRQA TVAMMNRKDE LEEENRSLRN
501 LLDGEMESHA ALRQEVDTLK RKVAEQEERQ GMKVQALASY LCYFVRRF*P
551 HVRTMWWRNG GREKSNSS** SHLSSWISQF LKLCFLWTFH VCEPINCFS
601 LKKK
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FIG. 3B

REPLACEMENT SHEET  
Appln. No. 09/155,676

clone 10 Length: 2631 August 23, 1996 17:18 Type: N Check: 5107 ..

1 CCCCcTcTcAC AGCCcCAGGCC ATCCAAGAGG GgCTGAGGAA AGAGCCCATC

51 cACCGcGTGT cTGCAGcGGA GcTGGGAGGG AAGGTGAACC GGGCActTACA

101 GCAAGTGGGA GGTcTGAAGA GcCCTTGGAG GGGAGAATAT AAAGAACCAA

151 GACATCCACc GCCAAATCAA GCCaAtTACC ACCAGACCcT CcATGCCcAg

201 CCGAGAGAGc TtTcGCCAAG GcCCcAGGG CCCCcGGCCAg CTGAGGAGAC

251 AACAggCAGA GcCCcTAAGc TCCAGCcTCC TcTCCCACCA GAGCCCCCAG

301 AGCCaAACAA GTcTCTCCCC ttGACTttGA GCAAGGAGGA GTcTGGGATG

351 TGGGAACCCCT TAcTctGTC cTCCCTGGAG CCAGCCCCCTG CCAGAAACCC

401 CAGcTCACCA GAGCGGAAAG CAACCGTCCC GGAGCAGGAA CTGCAGCAGC

451 TGGAAATAGA ATTATTCTC AACAGCCTGT CCCAGcCATT TTcTcTGGAG

501 GAGCAGGAGC AAATTCTcTc GTGCCTCAGC ATCGACAGCC TCTCCCTcGTC

551 GGATGACAGT GAGAAGAACC CATCAAAGGC CTCTCAAAGC TCGCGGGACA

601 CCCTGAGCTC AGGCGTACAC TCCTGGAGCA GcCAGGCCGA GGcTCGAAGc

651 TCCAGCTGGA ACATGGTGcT GcCCcGGGgg CGgCCCCACCG ACACCCCCAAG

701 CTATTTCAAT GGTGTGAAAG TCCAAATACA GTCTCTTAAT GGTGAACACC

751 TGCACATCCG GGAGTTCCAC CGGGTCAAAG TGGGAGACAT CGCCACTGGC

801 ATCAGCAGCC AGATCCCAGC TGCAGCCTTC AGCTTGGTCA CCAAAGACGG

851 GCAGCCTGTT CGCTACGACA TGGAGGTGCC AGACTCGGGC ATCGACCTGC

901 AGTGCACACT GcCCcCTGAT GGCAGCTTCG CCTGGAGCTG GAGGGTCAAG

951 CATGGCCAGC TGGAGAACAG GcCCTAACCC TGCCCTCCAC CGCCGGcTCC

1001 ACACTGCCCG aAAGCAGCCT TCCTGCTCGG tGCACGATGC TGCCCTGaAA

1051 AcACAGGcTC AGCcGTTCCC AgGGgATyTG .CCAGcCCCC CGGcTcArCA

1101 G.tGGGaAcC AGGGcctcG. CAGC.AGC.A AGGT.gGGGG CAAGC.AGAA

1151 TGCcTCCCAG GATTTcACA. CcTGAGCCC. TGCCCCA.CC cTGcTGAada

1201 AAAcAyT.CC GcAcGtGAA GAgAcAGaAG GAGGATGG.C AGGAgTt..A

1251 CcTygGGGAA aCaAAAcAGg gaTcTTt.tT cTGcCCcTGc TCCAGT.cGA

FIG. 4-1



REPLACEMENT SHEET  
Appln. No. 09/155,676

1301 gTGGCCTG. ACCCGcTTGG A.TCAgtGAC CATTtGtTGG CAGA.CAGGG  
1351 GagAgCAGcT TCCAGCctGG gTCAGAAGGG GTGGGcGAGC CctTcGGCCCC  
1401 cTcAcCCT.c cAGGcTgTg tg.AGAGTGT CAAGTctGTA AGGG.CCCAA  
1451 A.cTcAGG.T TCAGTGCAGA ACCAgGT.CA GCAGGTATGC CCGCCCC.TA  
1501 GGTAA..GG GGGCCcTcT. AAACCCCTTG cCT.GGCCT. CAcCT.GGCC  
1551 AGCTCA.CCC cTTTtGGGTG TAGGGGAAAA GAATGCCTGA CCCTGGGAAG  
1601 GCTwCCCTGG TAgaATACAC CACACTTTTC AGSTTGTTC AACACAGGTC  
1651 CTGAGTTGAC CTCTGSTTCA GCCAAGGACC AAAGAAGGTG TGTAAGTGAA  
1701 GTGGTTCTCA gT.CCCCAGa CATgtTgCCCC TTTGCTGCTG CCTACCACTC  
1751 TTCCCCAgAg CAGCAGGcCC CgAgCCCCCTT CAGGcCCAgC AcTGcCCCCAG  
1801 AcTCgCTGGC aCTCAGTTCC CTCATCTGTA AAGGTGAAGG GTGATGCAGG

1851 ATATGCCTGA CAGGAACAGT CTGTGGatGG AcATGATCAg TGcT.AAGG.  
1901 AAAGCAGcAG AGaGAGACgy TcGGCGCCCC CAg.CCCCCAc T.ATCAGTgt  
1951 .CCAgCGTGC T.GGTT.CCC CAg.AGCACA GcT.CAg.CA TcA.CACTGA  
2001 CACT.CAcCC T.GCCcTGCC CCT.GGCCA. GAgGGTACTG CCG.ACGGCA  
2051 CTTTGCAc.T CTGATG.ACC TCAAAGCACT TTCATGgcT. GcCCTct..G  
2101 GCAGGG.CAG GG.CAGGG.C AgTGAcA.CT GTAgG.AGCA TA.gCAA.GC  
2151 CAqGAGATGG GGTG.AAGGG A.CACAGTCT TGAGCTGTCC A.CATGCATG  
2201 TGAct.CCTC AAAcCTcTT. .CCAG.ATTT CTCTAAGAAT AGCA.CCCCC  
2251 TT.CCCCATT GCCCCAGCTT AgCCTCTTCT CCCAGGGGAG CTA.CTCAgG  
2301 ACTCACGTAg CATTAAATCA GCTGTG.AAT CGTCAGGGGG TGTCTGCTAg  
2351 CCTCAACCTC CTGGGGCaGG GGACgCCGAg ACTCCGTGGG AgAAgCTCAT  
2401 TCcCaCATCT TGCCAAgACA gCCTTT.GTC CAgCTGTCCA CATTGAgTCA  
2451 gACTGCTCCC GGGGAgAgAg cCCCCGcCCC CAgCACATAA AGAACTGCAG  
2501 CCTTGGTACT GCAGAGTCTG GGTGTAGAG AACTCTTTGT AAGCAATAAA  
2551 GTTTGGGGTG ATGACAAATG TTAAAAAAG GCCTTCGTGG CCTCGAATCA  
2601 AGCTTATCGA TACCSTCGAC CTCGACGGGG G

FIG. 4-2

REPLACEMENT SHEET  
Appln. No. 09/155,676

Length: 1253 July 10, 1996 clone15

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1  CATTGGAGTC ACGCGGTGGC GGCGCTCTAG AATAGTGGAT CCCCCGGGCTg
51  CA.GGAATTC GATTGAGGcC CACGAAGGCC CCTTCTTCTG TGGTCGCGGC
101 ACGTTTACaG CCGCAAGCac CCAGCGGCag CTGAAGGAGG CTTTTGagAG
151 GCTCCTgCCC CAGGTGGAGG CGGCCCGCAA GGCCATCCgC GCCGCTCAGG
201 TGGAGCGCTA TGTGCCCCGAA CACGAGCGAT GCTGCTGGTG CCTGTGCTGC
251 GGCTGTGAGG TGCGGGAACA CCTGAGCCAT GGAAACCTGA CGGTGCTGTA
301 CGGGGGGgCTG CTGGAGCATC TGGCCAGCCC AGAGCACAAG AAAGCAACCA
351 ACAAATTCTG GTGGGAGAAC AAAGCTGAGG TCCAGATGAA AGAGAAGTTT
401 CTGGTCACTC CCCAGGATTA TGC GCGATTC AAGAAATCCA TGGTGAAAGG
451 TTTGGATTCC TATGAAGAAA AGGAGGATAA AGTGATcAAG GAGaTGgCAG
501 CTCAGATCCG TGaGGTGGAg CAGAgCCGAC AGGAGgTGGt TCGGtCTGTc
551 TTAGAgCcTC AGGCAGTGcC AGACCCAGAA GAGGGcTCTT CAGCacCTAG
601 AAGCTGGAAA GGGATGAACA GCCAAGTAGc TTCCAGCTTA CAGcAGcCCT
651 CAAATTTGGA CCTGCCACCA GCTCCAGAGC TTGAcTGGAT GGAGACAGGA
701 CCATCTCTGA CATTcATTGG CCATCAGGAT ATACCAGGAG TTGGTAACAT
751 CCACTCAGGT GCCACACCTC CCTGGATGAT CCAAGATGAA GAATACATTG
801 CTGGGAACCA AGAAATAGGA CCATCCTATG AAGAATTTCT TAAAGAAAAG
851 GAAAAACAGA AGTTGAAAAA ACTcCCCCCA GACCGAGTTG GGGCCAACTT
901 TGATCACAGC TCCAGGACCA GTGCAGGCTG GCTGCCCTCT TTTgGGcCGC
951 GTCTGGAATA ATGGACGCCG CTGGCAGTCC AGACATCAAC TcCAAAACTG
1001 AAGCTGCAGC AATGAAGAAG CAGTCACATA CAGAAAAAAG CTAATCATGC
1051 TCTCTACCAA CTACCATGAG GCTAAAAGCC AAAGTCAACC AAACCCCTAT
1101 TATACCTTCC ACCCAAAATC TTTATCATTG TCTTTCTTAG GAAACAGACA
1151 TACTCATTCA TTTGATTTAA TAAAGTTTTA TTTTTCGGCC TTCGTGGCCT
1201 CGAATCAAGC TTATCGATAC CGtCGACCTC GAGGGGGGGC CGTACCCACT
1251 TTT

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FIG. 5A

REPLACEMENT SHEET  
Appln. No. 09/155,676

TRANSLATE of: 15cc check: 9389 from: 2 to: 1253  
generated symbols 1 to: 417.

15cc.pep Length: 417 August 23, 1996 14:32 Type: P Check: 7921 ..

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1  IGVTRWRRSR IVDPRAAXNS IRAHEGPFFC GRGTFTAAST QRQLXEAFER
51  LLPQVEAARK AIRAAQVERY VPEHERCCWC LCCGCEVREH LSHGNLTVLY
101 GGLLEHLASP EHKKATNKFV WENKAQVQMK EKFLVTPQDY ARFKKSMVKG
151 LDSYEEKEDK VIKEMAAQIR EVEQSRQEVV RSVLEPQAVP DPEEGSSAPR
201 SWKGMNSQVA SSLQQPSNLD LPPAPELDWM ETGPSLTFIG HQDIPGVGNI
251 HSGATPFWMI QDEEYIAGNQ ETGPSYEEFL KEKERQKLKK LPPDRVGANF
301 DHSSRTSAGW LPSFGPRLE* WTFLAVQTST PKLKLQ*RS SHIQKCANHA
351 LYQLP*G*KP KSTKPLLYLP PKFFIIVFLR KQYSFI*FN KVLFFGLRGL
401 ESSLSIPSTS RGGRTHF
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FIG. 5B

REPLACEMENT SHEET  
Appln. No. 09/155,676

1	AGC	GGG	GGG	ACT	GTG	CCG	TGT	GGA	ACG	TGT	AGC	TGT	TGA	AGG	TGG	ACT	CTG	TTA	CCA	TTG
											31									
61	AGG	ATG	TTT	GGA	GGA	TGA	GTA	TGT	GTG	GCA	GAG	GCA	CAC	ATA	AAC	AGG	CAG	AGA	CCC	TTT
											91									
121	GCC	CCT	GCC	TTT	CTC	CCC	CAA	CCC	AAG	GCT	GAC	CTG	TGT	TCT	CCC	AGG	TCT	GGG	ATT	CTA
											151									
181	AGT	GAC	CTG	CTC	TGT	GTT	TGG	TCT	CTC	TCA	GGA	TGA	GCA	CAA	CCC	TGG	GAG	ATG	GCA	GTG
											211									
241	ATG	GAA	ATG	GCC	TGC	CCA	GGT	GCC	CCT	GGC	TCA	GCA	GTG	GGG	CAG	CAG	AAG	GAA	CTC	CCC
											271									
301	AAG	CCA	AAG	GAG	AAG	ACG	CCG	CCA	CTG	GGG	AAG	AAA	CAG	AGC	TCC	GTC	TAC	AAG	CTT	GAG
											331									
361	GCC	GTG	GAG	AAG	AGC	CCT	GTG	TTC	TGC	GGA	AAG	TGG	GAG	ATC	CTG	AAT	GAC	GTG	ATT	ACC
											391									
421	AAG	GCC	ACA	GCC	AAG	GAA	GGC	TCC	GAG	GCA	GGG	CCA	GCT	GCC	ATC	TCT	ATC	ATC	GCC	CAG
											451									
481	GCT	GAG	TGT	GAG	AAT	AGC	CAA	GAG	TTC	AGC	CCC	ACC	TTT	TCA	GAA	CGC	ATT	TTT	ATC	GCT
											511									
541	GGG	TCC	AAA	CAG	TAC	AGC	CAG	TCC	GAG	AGT	CTT	GAT	CAG	ATC	CCC	AAC	AAT	GTG	GCC	CAT
											571									

FIG. 6-1

REPLACEMENT SHEET  
Appln. No. 09/155,676

601 GCT ACA GAG GGC AAA ATG GCC CGT GTG TGT TGG AAG GGA AAG CGT CGC AGC AAA GCC CGG  
A T E G K M A ATG GCC CGT GTG TGT TGG AAG GGA AAG CGT CGC AGC AAA GCC CGG  
661 AAG AAA CGG AAG AAG AAG AGC TCA AAG TCC CTG GCT CAT GCA GGA GTG GCC TTG GCC AAA  
K K R K K K K S S S K S L A H A G V A L A K  
721 CCC CTC CCC AGG ACC CCT GAG CAG GAG AGC TGC ACC ATC CCA GTG CAG GAG GAT GAG TCT  
P L P R T P E Q E S C T I P V Q E D E S  
781 CCA CTC GGC GCC CCA TAT GTT AGA AAC ACC CCG CAG TTC ACC AAG CCT CTG AAG GAA CCA  
P L G A P Y V R N T P Q F T K P L K E P  
841 GGC CTT GGG CAA CTC TGT TTT AAG CAG CTT GGC GAG GGC CTA CGG CCG GCT CTG CCT CGA  
G L G Q L C F K Q L G E G L R P A L P R  
901 TCA GAA CTC CAC AAA CTG ATC AGC CCC TTG CAA TGT CTG AAC CAC GTG TGG AAA CTG CAC  
S E L H K L I S P L Q C L N H V W K L H  
961 CAC CCC CAG GAC GGA GGC CCC CTG CCC CTG CCC AGC CAC CCC TTC CCC TAT AGC AGA CTG  
H P Q D G G P L P L P T H P F P Y S R L  
1021 CCT CAT CCC TTC CCA TTC CAC CCT CTC CAG CCC TGG AAA CCT CAC CCT CTG GAG TCC TTC  
P H P F P F H P L Q P W K P H P L E S F  
1081 CTG GGC AAA CTG GCC TGT GTA GAC AGC CAG AAA CCC TTG CCT GAC CCA CAC CTG AGC AAA  
L G K L A C V D S Q K P L P D P H L S K  
1141 CTG GCC TGT GTA GAC AGT CCA AAG CCC CTG CCT GGC CCA CAC CTG GAG CCC AGC TGC CTG  
L A C V D S P K P L P G P H L E P S C L  
1201 TCT CGT GGT GCC CAT GAG AAG TTT TCT GTG GAG GAA TAC CTA GTG CAT GCT CTG CAA GGC  
S R G A H E K F S V E E Y L V H A L Q G  
1261 AGC GTG AGC TCA AGC CAG GCC CAC AGC CTG ACC AGC CTG GCC AAG ACC TGG GCA GCA CGG  
S V S S S Q A H S L T S L A K T W A A R

FIG. 6-2

1321 GGC TCC AGA TCC CGG GAG CCC AGC CCC AAA ACT GAG GAC AAC GAG GGT GTC CTG CTC ACT  
 G S R S R E P S P K T E D N E G V L L T  
 1381 GAG AAA CTC AAG CCA GTG GAT TAT GAG TAC CGA GAA GTC CAC TGG GCC ACG CAC CAG  
 E K L K P V D Y E Y R E E V H W A T H Q  
 1441 CTC CGC CTG GGC AGA GGC TCC TTC GGA GAG GTG CAC AGG ATG GAG GAC AAG CAG ACT GGC  
 L R L G R G S F G E V H R M E D K Q T G  
 1501 TTC CAG TGC GCT GTC AAA AAG GTG GGC CTG GAA GTA TTT CCG GCA GAG GAG CTG ATG GCA  
 F Q C A V K K V R L E V F R A E E L M A  
 1551 TGT GCA GGA TTG ACC TCA CCC AGA ATT GTC CCT TTG TAT GGA GCT GTG AGA GAA GGG CCT  
 C A G L T S P R I V P L Y G A V R E G P  
 1621 TGG GTC AAC ATC TTC ATG GAG CTG GAA GGT GGC TCC CTG GGC CAG CTG GTC AAG GAG  
 W V N I F M E L L E G G S L G Q L V K E  
 1681 CAG GGC TGT CTC CCA GAG GAC CGG GCC CTG TAC TAC CTG GGC CAG GCC CTG GAG GGT CTG  
 Q G C L P E D R A L Y Y L G Q A L E G L  
 1741 GAA TAC CTC CAC TCA CGA AGG ATT CTG CAT GGG GAC GTC AAA GCT GAC AAC GTG CTC CTG  
 E Y L H S R R I L H G D V K A D N V L L  
 1801 TCC AGC GAT GGG AGC CAC GCA GCC CTC TGT GAC TTT GGC CAT GCT GTG TGT CTT CAA CCT  
 S S D G S H A A L C D F G H A V C L Q P  
 1861 GAT GGC CTG GGA AAG TCC TTG CTC ACA GGG GAC TAC ATC CCT GGC ACA GAG ACC CAC ATG  
 D G L G K S L L T G D Y I P G T E T H M  
 1921 CCT CCG GAG GTG CTG GGC AGG AGC TGC GAC GCC AAG GTG GAT GTC TGG AGC AGC TGC  
 A P E V V L G R S C D A K V D V W S S C

FIG. 6-3

REPLACEMENT SHEET  
Appl. No. 09/155,676

1981 TGT ATG ATG CTG CAC ATG CTC AAC GGC TGC CAC CCC TGG ACT CAG TTC TTC CGA GGG CCG  
C M L H M L N G C H P C 2011  
2041 CTC TGC CTC AAG ATT GCC AGC GAG CCT CCG CCT GTG AGG GAG ATC CCA CCC TCC TGC GCC  
L C L K I A S E P P P V R E I P P S C A 2071  
2101 CCT CTC ACA GCC CAG GCC ATC CAA GAG GGG CTG AGG AAA GAG CCC ATC CAC CGC GTG TCT  
P L T A Q A I Q E G L R K E P I H R V S 2131  
2161 GCA GCG GAG CTG GGA GGG AAG GTG AAC CCG GCA CTA CAG CAA GTG GGA GGT CTG AAG AGC  
A A E L G G K V N R A L Q Q V G G L K S 2191  
2221 CCT TGG AGG GGA GAA TAT AAA GAA CCA AGA CAT CCA CCG CCA AAT CAA GCC AAT TAC CAC  
P W R G E Y K E P R H P P P N Q A N Y H 2251  
2281 CAG ACC CTC CAT GCC CAG CCG AGA GAG CTT TCG CCA AGG GCC CCA GGG CCC CGG CCA GCT  
Q T L H A Q P R E L S P R A P G P R P A 2311  
2341 GAG GAG ACA ACA GGC AGA GCC CCT AAG CTC CAG CCT CCT CTC CCA CCA GAG CCC CCA GAG  
E E T T G R A P K L Q P P L P P E P E 2371  
2401 CCA AAC AAG TCT CCT CCC TTG ACT TTG AGC AAG GAG GAG TCT GGG ATG TGG GAA CCC TTA  
P N K S P P L T L S K E E S G M W E P L 2431  
2461 CCT CTG TCC TCC CTG GAG CCA GCC CCT GCC AGA AAC CCC AGC TCA CCA GAG CGG AAA GCA  
P L S S L E P A P A R N P S S P E R K A 2491  
2521 ACC GTC CCG GAG CAG GAA CTG CAG CAG CTG GAA ATA GAA TTA TTC CTC AAC AGC CTG TCC  
T V P E Q E L Q Q L E I E L F L N S L S 2551  
2581 CAG CCA TTT TCT CTG GAG CAG CAG CAA ATT CTC TCG TGC CTC AGC ATC GAC AGC CTC  
Q P F S L E E Q E Q I L S C L S I D S L 2611  
2641 TCC CTG TCG GAT GAC AGT GAG AAG AAC CCA TCA AAG GCC TCT CAA AGC TCG CGG GAC ACC  
S L S D D S E K N P S K A S Q S S R D T 2671  
2701 CTG AGC TCA GGC GTA CAC TCC TGG AGC AGC CAG GCC GAG GCT CGA AGC TCC AGC TGG AAC  
L S S G V H S W S S Q A E A R S S S W N 2731  
2761 ATG GTG CTG GCC CGG GGG CGG CCC ACC GAC ACC CCA AGC TAT TTC AAT GGT GTG AAA GTC  
M V L A R G R P T D T P S Y F N G V K 2791

FIG. 6-4

2821 CAA ATA CAG TCT CTT AAT GGT GAA CAC CTG CAC ATC CGG GAG TTC CAC CGG GTC AAA GTG  
Q I Q S L N G E H L H I R E F H R V K V  
2881 GGA GAC ATC GCC ACT GGC ATC AGC AGC CAG ATC CCA GCT GCA GCC TTC AGC TTG GTC ACC  
G D I A T G I S S Q I P A A A F S L V T  
2941 AAA GAC GGG CAG CCT GTT CGC TAC GAC ATG GAG GTG CCA GAC TCG GGC ATC GAC CTG CAG  
K D G Q P V R Y D M E V P D S G I D L Q  
3001 TGC ACA CTG GCC CCT GAT GGC AGC TTC GCC TGG AGC TGG AGG GTC AAG CAT GGC CAG CTG  
C T L A P D G S F A W S W R V K H G Q L  
3061 GAG AAC AGG CCC TAA CCC TGC CCT CCA CCG CCG GCT CCA CAC TGC OGG AAA GCA GCC TTC  
E N R P \*

3121 CTG CTC GGT GCA CGA TGC TGC CCT GAA AAC ACA GGC TCA GCC GTT CCC AGG GGA TTG CCA  
3151  
3181 GCC CCC CGG CTC ACA GTG GGA ACC AGG GCC TCG CAG CAG CAA GGT GGG GGC AAG CAG AAT  
3211  
3241 GCC TCC CAG GAT TTC ACA CCT GAG CCC TGC CCC ACC CTG CTG AAA AAA CAT CCG CCA CGT  
3271  
3301 GAA GAG ACA GAA GGA TGG CAG GAG TTA CCT GGG GAA ACA AAA CAG GGA TCT TTT TCT  
3331  
3361 GCC CCT GCT CCA GTC GAG TTG GCC TGA CCC GCT TGG ATC AGT GAC CAT TTG TTG GCA GAC  
3391  
3421 AGG GGA GAG CAG CTT CCA GCC TGG GTC AGA AGG GGT GGG CGA GCC CTT CGG CCC CTC ACC  
3451

FIG. 6-5



REPLACEMENT SHEET  
Appln. No. 09/155,676

3481	CTC CAG GCT GCT GTG AGA GTG TCA AGT GTG TAA GGG CCC AAA CTC AGG TTC AGT GCA GAA	3511
3541	CCA GGT CAG CAG GTA TGC CCG CCC GTA GGT TAA GGG GGC CCT CTA AAC CCC TTG CCT GGC	3571
3601	CTC ACC TGG CCA GCT CAC CCC TTT TGG GTG TAG GGG AAA AGA ATG CCT GAC CCT GGG AAG	3631
3661	GCT CCC TGG TAG AAT ACA CCA CAC TTT TCA GGT TGT TGC AAC ACA GGT CCT GAG TTG ACC	3691
3721	TCT GGT TCA GCC AAG GAC CAA AGA AGG TGT GTA AGT GAA GTG GTT CTC AGT CCC CAG ACA	3751
3781	TGT GCC CCT TTG CTG CTG GCT ACC ACT CTT CCC CAG AGC AGC AGG CCC CGA GCC CCT TCA	3811
3841	GGC CCA GCA CTG CCC CAG ACT CGC TGG CAC TCA GTT CCC TCA TCT GTA AAG GTG AAG GGT	3871
3901	GAT GCA GGA TAT GCC TGA CAG GAA CAG TCT GTG GAT GGA CAT GAT CAG TGC TAA GGA AAG	3931
3961	CAG CAG AGA GAG ACG TCC GGC CCC CCA GCC CCA CTA TCA GTG TCC AGC GTG CTG GTT CCC	3991
4021	CAG AGC ACA GCT CAG CAT CAC ACT GAC ACT CAC CCT GCC CTG CCC CTG GCC AGA GGG TAC	4051
4081	TGC CGA CGG CAC TTT GCA CTC TGA TGA CCT CAA AGC ACT TTC ATG GCT GCC CTC TGG CAG	4111

FIG. 6-6

4141 GGC AGG GCA GGG CAG TGA CAC TGT AGG AGC ATA GCA AGC CAG GAG ATG GGG TGA AGG GAC 4171  
4201 ACA GTC TTG AGC TGT CCA CAT GCA TGT GAC TCC TCA AAC CTC TTC CAG ATT TCT CTA AGA 4231  
4261 ATA GCA CCC CCT TCC CCA TTG CCC CAG CTT AGC CTC TTC TCC CAG GGG AGC TAC TCA GGA 4291  
4321 CTC ACG TAG CAT TAA ATC AGC TGT GAA TCG TCA GGG GGT GTC TGC TAG CCT CAA CCT CCT 4351  
4381 GGG GCA GGG GAC GCC GAG ACT CCG TGG GAG AAG CTC ATT CCC ACA TCT TGC CAA GAC AGC 4411  
4441 CTT TGT CCA GCT GTC CAC ATT GAG TCA GAC TGC TCC CGG GGA GAG AGC CCC GGC CCC CAG 4471  
4501 CAC ATA AAG AAC TGC AGC CTT GGT ACT GCA GAG TCT GGG TTG TAG AGA ACT CTT TGT AAG 4531  
4561 CAA TAA AGT TTG GGG TGA TGA CAA ATG TTA AAA AAA 4596

FIG. 6-7

s3	- - - - -	- - - - -	- - - - -
s4	- - - - -	- - - - -	- - - - -
s9	- - - - -	- - - - -	- - - - -
s7	- - - - -	- - - - -	- - - - -
s2	- - - - -	- - - - -	- - - - -
s6	- - - - -	- - - - -	- - - - -
s8	- - - - -	- - - - -	- - - - -
s1	- - - - -	- - - - -	- - - - -
s5	- - - - -	- - - - -	- - - - -
s3	- - - - -	- - - - -	- - - - -
s4	- - - - -	- - - - -	- - - - -
s9	- - - - -	- - - - -	- - - - -
s7	- - - - -	- - - - -	- - - - -
s2	- - - - -	- - - - -	- - - - -
s6	- - - - -	- - - - -	- - - - -
s8	- - - - -	- - - - -	- - - - -
s1	- - - - -	- - - - -	- - - - -
s5	- - - - -	- - - - -	- - - - -
s3	- - - - -	- - - - -	- - - - -
s4	- - - - -	- - - - -	- - - - -
s9	- - - - -	- - - - -	- - - - -
s7	- - - - -	- - - - -	- - - - -
s2	- - - - -	- - - - -	- - - - -
s6	- - - - -	- - - - -	- - - - -
s8	- - - - -	- - - - -	- - - - -
s1	- - - - -	- - - - -	- - - - -
s5	- - - - -	- - - - -	- - - - -

FIG. 7-1

s3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
s4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
s9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
s7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
s2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
s6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
s8	-	-	-	-	-	T	S	S	Q	F	E	S	T	P	V	I	E	Q	S	F	N	W	T	D	D	H	I	S	A	G	T	L	E	N	P	T	99		
s1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
s5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
s3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s8	-	-	-	-	-	S	E	T	N	S	S	Y	K	N	D	N	G	P	S	S	L	S	D	S	R	K	S	S	G	G	N	S	V	N	S	L	S	F	132
s1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
s5	-	-	-	-	-	-	-	-	-	-	-	-	-	M	M	M	D	I	L	N	T	Q	Q	Q	K	A	E	G	C	R	V	L	A	P	H	T	I	S	26

FIG. 7-2

[illegible]

FIG. 7-3

s3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
s4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
s9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
s7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
s2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
s6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
s8	199	K	T	A	S	Y	T	R	F	Q	L	K	K	T	M	T	K	N	V	T	N	S	H	I	R	Q̃	K	S	A	S	K	L	231		
s1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s5	93	K	L	T	N	R	Y	E	E	D	D	G	D	D	E	I	I	R	L	S	N	G	D	R	I	D	E	D	L	H	S	G	V	K	125
s3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
s4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
s9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
s7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
s2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
s6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
s8	232	K	S	S	R	S	S	S	E	S	I	K	S	K	L	K	N	S	K	S	Q̃	E	D	I	S	N	S	R	S	T	S	E	S	A	264
s1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
s5	126	F	F	S	T	P	Y	C	R	K	M	R	S	D	S	D	E	L	A	W	N	E	I	A	T	E	R	F	K	W	Q̃	S	M	158	

FIG. 7-4

[illegible]

FIG. 7-5

## Appln. No. 09/155,676

[illegible]

FIG. 7-6



s3	1	- - - - -	- - - - -	- - - - -	- - - - -
s4	1	- - - - -	- - - - -	- - - - -	- - - - -
s9	1	- - - - -	- - - - -	- - - - -	- - - - -
s7	1	- - - - -	- - - - -	- - - - -	- - - - -
s2	1	- - - - -	- - - - -	- - - - -	- - - - -
s6	1	- - - - -	- - - - -	- - - - -	- - - - -
s8	397	LAKGSKHYETNVSSPLKQSSLPTSDDKGNLWN			429
s1	1	- - - - -	- - - - -	- - - - -	- - - - -
s5	291	FKTNLTLRRQELEDWINRFPISSSDNCQEDFD			323
s3	1	- - - - -	- - - - -	- - - - -	- - - - -
s4	1	- - - - -	- - - - -	- - - - -	- - - - -
s9	1	- - - - -	- - - - -	- - - - -	- - - - -
s7	1	- - - - -	- - - - -	- - - - -	- - - - -
s2	1	- - - - -	- - - - -	- - - - -	- - - - -
s6	1	- - - - -	- - - - -	- - - - -	- - - - -
s8	430	KFKRKSI GVPSPNTVAYVTSEQETPSLKSNSST			462
s1	1	- - - - -	- - - - -	- - - - -	- - - - -
s5	324	GVPQNCKMKILAEQLMKEKNIESIFQK-			351

FIG. 7-7

s3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
s4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
s9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
s7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
s2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
s6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
s8	463	A	T	L	V	Q	T	A	D	V	N	I	P	S	P	S	S	P	P	I	P	K	T	A	N	R	S	L	E	V	I	495			
s1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
s5	352	-	-	-	-	-	-	-	-	-	-	K	I	F	Y	P	L	S	P	W	M	F	K	L	K	L	H	F	I	V	Y	R	E	T	374
s3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
s8	496	S	T	E	D	T	P	K	I	S	S	T	A	S	F	K	E	E	T	Y	P	D	C	I	N	P	D	K	T	V	P	V	P	V	528
s1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
s5	375	L	T	K	M	N	I	K	Y	P	Y	E	R	L	R	S	L	L	A	F	P	V	Y	L	I	K	E	V	I	L	T	R	L	S	407

FIG. 7-8

[illegible]

FIG. 7-9

## Appln. No. 09/155,676

FIG. 7-10

[illegible]

FIG. 7-11

## Appln. No. 09/155,676

FIG. 7-12

[illegible]

FIG. 7-13

REPLACEMENT SHEET  
Appln. No. 09/155,676

[illegible]

FIG. 7-14



## Appln. No. 09/155,676

FIG. 7-15

s3	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
s4	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
s9	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
s7	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
s2	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
s6	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
s8	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
s1	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
s5	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
	1	-	-	-	-	-	-	-
	1	-	-	-	-	-	-	-
212	Q L G E G L R P A L P R S E L H K L I S P L Q C L N H V W K L H H	244	0	0	0	0	0	0
	1	-	-	-	-	-	-	-
285	E D V N R L P R I D R G F D P P L T V S S T Q R I S R P P S L Q K	317	0	0	0	0	0	0
358	D T K K I P K L A H K - - - - -	368	0	0	0	0	0	0
971	S D D D S S S S D D I I W S K K K T A P E T N N E N K K D E K S D	1003	0	0	0	0	0	0
270	E T V F T P V E D K C R L D V N T E L N S S I E D L L E A S M P S	302	0	0	0	0	0	0
867	A F S S K R K Y V I I F L M V K L G M N W - L K F L V E E C D P T	898	0	0	0	0	0	0
	1	-	-	-	-	-	-	-
	1	-	-	-	-	-	-	-
245	P Q D G G P L P L P T H P F P Y S R L P H P	277	0	0	0	0	0	0
	1	-	-	-	-	-	-	-
318	S I T M V G V E P L Y Q S N G N E K S S K Y N V F S E	350	0	0	0	0	0	0
369	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
1004	N S S T H S D E I F Y D S Q T Q D K M E R K	1036	0	0	0	0	0	0
303	S D T T V T F K S E V A V L S P E K A E N D D T Y K D D V N H N Q	335	0	0	0	0	0	0
899	D Q R T F R W C V L A M D F A M Q M T S G Y N I L A L N V K O F Q	931	0	0	0	0	0	0

7-16  
F.G.

REPLACEMENT SHEET  
Appl. No. 09/155,676

s3	12	E	E	I	D	L	L	L	I	N	H	L	N	V	S	E	V	L	D	I	M	E	N	L	Y	A	S	E	E	P	A	V	Y	E	P	44
s4	12	E	E	I	D	L	L	L	I	K	H	L	N	V	S	D	V	I	D	I	M	E	N	L	Y	A	S	E	E	P	A	V	Y	E	P	44
s9	278	H	P	L	E	S	F	L	G	K	L	A	C	V	D	S	Q	K	P	L	P	D	P	H	L	S	K	L	A	C	V	D	S	P	310	
s7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23		
s2	351	Q	V	L	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	367		
s6	369	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	381		
s8	1037	Q	N	L	E	K	F	E	P	R	A	N	L	D	K	P	I	T	E	G	I	A	S	P	T	S	P	K	S	L	D	S	L	L	1069	
s1	336	K	C	K	E	K	M	E	A	E	E	E	E	A	L	A	I	A	M	A	M	S	A	S	Q	D	A	L	P	I	V	P	Q	L	368	
s5	932	E	L	K	E	R	V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	948	
s3	45	S	L	M	T	M	C	P	D	S	N	Q	N	K	E	H	S	E	S	L	L	R	S	G	Q	E	V	-	-	-	-	-	-	-	-	74
s4	45	S	L	M	T	M	C	Q	D	S	N	Q	N	D	E	R	S	K	S	L	L	L	S	G	Q	E	V	-	-	-	-	-	-	-	-	74
s9	311	K	P	L	P	G	P	H	L	E	P	S	C	L	S	R	G	A	H	E	K	F	S	V	E	E	Y	L	V	H	A	L	Q	G	343	
s7	24	V	R	R	S	L	V	F	K	Q	S	G	D	F	D	T	G	A	G	V	G	S	G	F	G	G	F	V	E	K	L	G	S	-	56	
s2	368	S	P	I	S	P	T	S	T	T	S	E	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	379	
s6	382	L	L	S	V	E	S	G	E	E	E	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	392	
s8	1070	S	P	K	N	V	A	S	S	R	T	E	P	S	T	P	S	R	P	V	P	P	D	S	Y	E	F	I	Q	D	G	L	N	1102		
s1	369	Q	V	E	N	G	E	D	I	I	I	Q	D	T	P	E	T	L	P	G	H	-	-	-	-	-	-	-	-	-	-	-	-	-	390	
s5	949	D	V	M	G	A	R	A	T	E	A	E	N	G	M	Q	Q	A	R	L	N	I	D	T	E	E	N	I	D	E	E	A	T	L	981	

FIG. 7-17

REPLACEMENT SHEET  
Appln. No. 09/155,676

s3	75	S	V	R	Y	G	T	V	E	D	L	-	L	A	F	A	N	H	I	S	N	T	T	K	H	F	Y	R	C	R	P	-	-	-	103		
s4	75	S	V	R	Y	G	T	V	E	D	L	-	L	A	F	A	N	H	I	S	N	T	A	K	H	F	Y	G	Q	R	P	-	-	-	103		
s9	344	S	V	S	S	Q	A	H	S	L	-	T	S	L	A	K	T	W	A	A	R	G	S	R	S	R	E	P	S	P	K	T	E	375			
s7	57	S	I	R	K	S	S	I	G	I	F	S	K	A	H	V	P	A	L	P	S	I	S	K	A	E	L	P	A	K	A	R	K	D	89		
s2	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	N	T	L	E	E	D	T	D	Q	S	I	-	-	-	-	-	-	392			
s6	393	-	-	-	-	-	-	-	-	-	-	-	-	-	H	D	F	F	G	E	D	S	D	I	V	S	L	P	T	K	I	A	T	P	412		
s8	1103	G	K	N	K	P	L	N	Q	A	K	T	P	K	R	T	K	T	I	R	T	I	A	H	E	A	S	L	A	R	K	N	S	V	1135		
s1	391	-	-	-	-	-	-	-	-	-	-	-	T	K	A	K	Q	P	Y	R	E	D	A	E	-	-	-	-	-	-	-	-	-	402			
s5	982	E	I	N	S	R	L	R	L	E	A	I	K	T	L	E	K	T	M	K	R	N	P	R	Q	M	G	K	V	L	D	A	T	D	1014		
s3	104	Q	E	S	G	I	L	L	N	M	-	-	-	-	-	-	V	I	S	P	Q	N	G	R	Y	Q	I	D	S	D	V	L	L	V	P	131	
s4	104	Q	E	S	G	I	L	L	N	M	-	-	-	-	-	-	V	I	T	P	Q	N	G	R	Y	Q	I	D	S	D	V	L	L	I	P	131	
s9	376	D	N	E	G	V	L	L	T	E	-	-	-	-	-	-	K	L	K	P	V	D	-	-	Y	E	Y	R	E	V	H	W	A	T	401		
s7	90	D	T	P	P	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94			
s2	393	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	393			
s6	413	K	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	414			
s8	1136	K	L	K	R	Q	N	T	K	M	W	G	T	R	M	V	E	V	T	E	N	H	M	V	S	I	N	K	A	K	N	S	K	G	1168		
s1	403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	403			
s5	1015	Q	G	N	K	Y	L	L	S	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	S	S	L	1027

FIG. 7-18

REPLACEMENT SHEET  
Appln. No. 09/155,676

s3	132	W	K	L	T	Y	R	S	I	G	S	G	F	V	P	R	G	A	F	G	K	V	V	L	A	Q	D	M	K	T	K	K	R	M	164
s4	132	W	K	L	T	Y	R	N	I	G	S	D	E	I	P	R	G	A	F	G	K	V	V	L	A	Q	D	I	K	T	K	K	R	M	164
s9	402	H	Q	L	R	-	-	-	-	-	-	-	-	L	G	R	G	S	F	G	E	V	H	R	M	E	D	K	Q	T	G	F	Q	C	426
s7	95	-	-	-	-	-	R	W	R	K	G	E	M	I	G	C	G	A	F	G	R	V	Y	M	G	M	N	V	D	S	G	E	L	L	122
s2	394	-	-	-	-	-	-	W	I	R	G	A	L	I	G	S	G	S	F	G	Q	V	Y	L	G	M	N	A	S	S	G	E	L	M	420
s6	415	-	-	-	-	-	-	W	L	K	G	A	C	I	G	S	G	S	F	G	S	V	Y	L	G	M	N	A	H	T	G	E	L	M	442
s8	1169	-	-	-	-	-	-	W	M	K	G	E	M	I	G	K	C	S	F	G	A	V	Y	L	C	L	N	V	T	T	G	E	M	M	1201
s1	403	-	-	-	-	-	-	W	L	K	G	Q	Q	I	G	L	G	A	F	S	S	C	Y	Q	A	Q	D	V	G	T	G	T	L	M	429
s5	1028	S	N	V	S	M	R	W	Q	K	R	S	F	I	G	G	C	T	F	G	Q	V	Y	S	A	I	N	L	E	N	G	E	I	L	1060
s3	165	A	C	K	L	I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	169
s4	165	A	C	K	L	I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	169
s9	427	A	V	K	K	V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	431
s7	123	A	I	K	E	V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127
s2	421	A	V	K	Q	V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	425
s6	443	V	K	Q	V	E	I	K	N	N	N	I	G	V	P	T	D	N	N	K	Q	A	N	S	D	E	N	N	E	Q	E	E	Q	Q	475
s8	1202	A	V	K	Q	V	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1207
s1	430	A	V	K	Q	V	T	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	436
s5	1061	A	V	K	E	T	K	I	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1068

FIG. 7-19



REPLACEMENT SHEET  
Appl. No. 09/155,676

s3	215	V L E K L E S C G P M R E F E I I	- W V T K H V L K G L D F L H S	246
s4	215	V L E K L E S C G P M R E F E I I	- W V T K H V L K G L D F L H S	246
s9	477	L G Q S L L V K E Q G C L P E D R R A I I	- Y Y L G Q A L E G L E Y L H S	508
s7	186	I S S L L L G K K F G S F P E S V I R	- M Y T K Q L L L G L E Y L H K	217
s2	484	V A G L L L N N Y G P F E S L I T V K N	- F I K Q T L K G L E Y L H S	515
s6	542	S S S L L L N N Y G P F E S L I T V K N	- F I K Q T L K G L E Y L H S	573
s8	1265	V G S L L L N N Y G P F E S L I T V K N	- L T T Q V L K G L A Y L H S	1296
s1	491	V A S L L L N N Y G P F E S L I T V K N	- Y T F Q L L R G L S Y L H E	522
s5	1120	L A S L L L N N Y G P F E S L I T V K N	- V Y T F E L L E G L A Y L H Q	1151
s3	247	K K V I H H D I K P S N I V F M S	- T K A V L V D F G L S V	- 275
s4	247	K K V I H H D I K P S N I V F M S	- T K A V L V D F G L S V	- 275
s9	509	R R I L H H G D V K A D N V L L S S	- S H A A L C D F G H A V	541
s7	218	N G I L H H R D I K G A N I L V D N K K	- I K L A D F G A S K K V	249
s2	516	R G I V H H R D I K G A N I L V D N K K	- K I K I S D F G I S K K L	547
s6	574	N I I H R D I K G A N I L V D N K K	- V K I T D F G I S K K L	604
s8	1297	K G I L H H R D I K G A N I L V D N K K	- I C K I S D F G I S R K	1327
s1	523	N Q I I H H R D I K G A N I L V D N K K	- V K I T D F G I S R K	555
s5	1152	S G V V H H R D I K G A N I L V D N K K	- I K V V D F G T A R T V	1183

FIG. 7-21

## Appln. No. 09/155,676

s3	295	S	P	E	V	I	L	C	R	-	-	G	H	S	T	K	A	D	I	Y	S	L	G	A	T	L	I	H	M	Q	T	G	T	324	
s4	295	S	P	E	V	I	L	C	R	-	-	G	H	S	T	K	A	D	I	Y	S	L	G	A	T	L	I	H	M	Q	T	G	T	324	
s9	564	A	P	E	V	V	L	G	R	-	-	S	C	D	A	K	V	D	V	W	S	S	C	C	M	M	L	H	M	L	N	G	C	593	
s7	269	A	P	E	V	I	L	Q	T	-	-	G	H	S	F	S	A	D	I	W	S	V	G	C	T	I	I	E	M	A	T	G	K	298	
s2	571	A	P	E	V	V	K	-	Q	T	M	H	T	-	-	E	K	T	D	I	W	S	L	G	C	L	V	I	E	M	L	T	S	K	600
s6	626	P	E	V	V	K	-	Q	T	A	T	T	-	-	A	K	A	D	I	W	S	T	G	C	V	V	I	E	M	F	T	G	K	H	655
s8	1347	A	P	E	M	V	D	T	K	Q	G	Y	S	-	-	A	K	V	D	I	W	S	L	G	C	I	V	L	E	M	F	A	G	K	1377
s1	577	A	P	E	V	L	R	G	Q	Q	-	Y	G	-	-	R	S	C	D	V	W	S	V	G	C	A	I	I	E	M	A	C	A	K	606
s5	1217	A	P	E	T	I	S	G	S	A	V	K	G	K	L	G	A	D	D	V	W	A	L	G	C	V	V	L	E	M	A	T	G	R	1249

FIG. 7-22



REPLACEMENT SHEET  
Appl. No. 09/155,676

s3	325	P	P	W	V	-	-	-	-	K	R	Y	P	R	S	A	Y	P	S	Y	L	Y	I	I	H	K	Q	A	P	P	L	E	D	I	A	G	355			
s4	325	P	P	W	V	-	-	-	-	K	R	Y	P	R	S	A	Y	P	S	Y	L	Y	I	I	H	K	Q	A	P	P	L	E	D	I	A	D	355			
s9	594	H	P	W	T	-	-	-	-	Q	F	F	R	G	P	L	C	-	-	-	L	K	I	A	S	E	P	P	P	P	V	R	E	I	P	P	620			
s7	299	P	P	W	S	-	-	-	-	Q	Q	Y	Q	E	V	A	A	L	F	H	I	G	T	T	K	S	H	P	P	I	P	E	H	L	S	A	329			
s2	601	H	P	Y	-	-	-	-	-	P	N	C	D	Q	M	Q	A	I	F	R	I	G	T	N	-	-	-	-	-	-	I	L	P	E	F	P	S	625		
s6	656	P	F	-	-	-	-	-	-	P	D	F	S	Q	M	Q	A	I	F	K	I	G	T	N	-	-	-	-	-	-	T	P	E	I	P	S	W	680		
s8	1378	R	P	W	-	-	-	-	-	-	S	N	L	E	V	A	A	I	M	F	K	I	G	T	N	-	-	-	-	-	P	P	I	P	E	D	T	L	P	1407
s1	607	P	P	W	N	A	E	K	H	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	635			
s5	1250	R	P	W	S	N	L	D	N	-	-	E	W	A	I	M	Y	H	V	A	A	G	R	I	P	Q	L	P	N	R	D	-	-	-	-	-	1277			
s3	356	D	C	S	P	G	M	R	E	L	I	E	A	A	L	E	R	N	P	N	H	R	P	K	A	A	D	L	-	-	-	-	-	-	-	-	-	382		
s4	356	D	C	S	P	G	M	R	E	L	I	E	A	A	L	E	R	N	P	N	H	R	P	R	A	A	D	L	-	-	-	-	-	-	-	-	-	382		
s9	621	S	C	A	P	L	T	A	Q	A	I	Q	E	G	L	R	K	E	P	I	H	R	V	S	A	A	E	L	G	K	V	N	R	653						
s7	330	E	S	-	-	-	-	K	D	F	L	L	K	C	L	Q	K	E	P	H	L	R	H	S	A	S	N	L	L	Q	H	P	F	V	358					
s2	626	N	I	S	S	S	A	I	D	F	L	L	K	C	L	F	A	I	D	C	N	L	R	P	T	A	S	E	L	L	S	H	P	F	V	658				
s6	681	A	T	S	E	G	K	N	F	L	R	K	A	F	E	L	D	Y	Q	Y	R	P	S	A	L	E	L	L	Q	H	P	W	L	D	713					
s8	1408	L	I	S	Q	I	G	R	N	F	L	D	A	C	F	E	I	N	P	E	K	R	P	T	A	N	E	L	L	S	H	P	F	S	1440					
s1	636	H	L	S	P	G	L	R	D	V	A	V	R	C	L	E	L	Q	P	Q	D	R	P	P	S	R	E	L	L	K	H	P	V	F	668					
s5	1278	E	M	T	A	A	G	R	A	L	L	G	K	V	F	G	S	R	P	H	Y	E	G	Y	C	C	G	T	T	D	R	P	L	D	1310					

FIG. 7-23

## Appln. No. 09/155,676

383	-	-	-	-	-	L K	-	-	H E A L N P P R E D Q P P R C Q S L D S A L	405
383	-	-	-	-	-	L K	-	-	H E A L N P P R E D Q P P R C Q S L D S A L	405
654	A L Q Q V G G	S P W R G E Y K E	P P R H P P P N Q A N Y H Q T L	686						
359	T A E H Q E A R P	F L R S S F M G N P	E N M A A Q R M D V R T S I	391						
659	S	-	-	-	-	-	-	-	-	659
714	A H I I	-	-	-	-	-	-	-	-	717
1441	E V N E T F N	F K S T R L A K F	I K S N D K L N S S K L R I T S Q	1473						
669	R T T W	-	-	-	-	-	-	-	-	672
1311	D T N P	-	-	-	-	-	-	-	-	1314

406	F D R K R L L S R K E	-	-	-	-	-	L 417
406	L E R K R L L S R K E	-	-	-	-	-	L 417
687	H A Q P R E L S P R A P G P R P A E E T T G R A P K L Q P P L P P 719	-	-	-	-	-	P 719
392	I P D M R A S C N G L K D V C G V S A V R C S T V Y P E N S L G K 424	-	-	-	-	-	K 424
0	- - - - -	-	-	-	-	-	659
0	- - - - -	-	-	-	-	-	717
1474	E N K T E - - - -	-	-	-	-	-	1478
0	- - - - -	-	-	-	-	-	672
0	- - - - -	-	-	-	-	-	1314

FIG. 7-24

REPLACEMENT SHEET  
 Appln. No. 09/155,676

s3	418	E	L	P	E	N	I	A	D	S	S	C	T	G	S	T	E	E	S	E	V	L	R	Q	R	S	L	V	I	D	L	G	A	450	
s4	418	E	L	P	E	N	I	A	D	S	S	C	T	G	S	T	E	E	S	E	M	L	K	R	Q	R	S	L	V	I	D	L	G	A	450
s9	720	E	P	P	E	P	N	K	S	P	P	I	T	L	S	K	E	E	S	G	M	W	E	P	L	P	L	S	S	L	E	P	A	P	752
s7	425	E	S	L	W	K	L	G	N	S	D	D	D	M	C	Q	M	D	N	D	D	F	M	F	G	A	S	V	K	C	S	S	D	L	457
s2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	659	
s6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	717	
s8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1478	
s1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	672	
s5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1314	
s3	451	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	461	
s4	451	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	461	
s9	753	A	R	N	P	S	S	P	E	R	K	A	T	V	P	E	Q	E	L	Q	Q	L	E	E	L	F	L	N	S	L	S	Q	P	P	785
s7	458	H	S	P	A	N	Y	K	S	F	N	P	M	C	E	P	D	N	D	W	P	C	K	F	E	S	P	E	L	T	K	S	Q	490	
s2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	659	
s6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	717	
s8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1478	
s1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	672	
s5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1314	

FIG. 7-25

## Appln. No. 09/155,676

FIG. 7-26

[illegible]

FIG. 7-27

[illegible]

FIG. 7-28